

(use several sheets if necessary)

**U.S. PATENT DOCUMENTS**

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EXAMINER INITIAL		DOCUMENT NUMBER <small>Number-Kind Code (if known)</small>	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES OR NO

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## OTHER ART - NON PATENT LITERATURE DOCUMENTS

(Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.

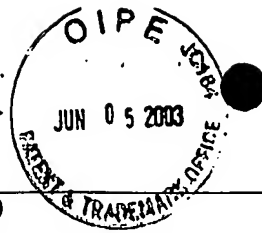
E1	A.Y. Chow, G.A. Peyman, J. Pulido, "Safety and Feasibility of Subretinal Artificial Silicon Retina™ Retinal Prosthesis for the Treatment of Patients with Retinitis Pigmentosa", ARVO (The Association of Research in Vision and Ophthalmology), Abstract Issue of Annual Meeting, For Lauderdale, Florida, April 29-May 4, 2001, Abstract 5042-11:11 (1 page and cover page), Published March 15, 2001.
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Rev. Dec.-99



FORM PTO-1449	SERIAL NO. 10/056,793	CASE NO. 3614/63
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (use several sheets if necessary)	FILING DATE January 23, 2002	GROUP ART UNIT 3762
APPLICANT(S): A. Chow et al.		

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

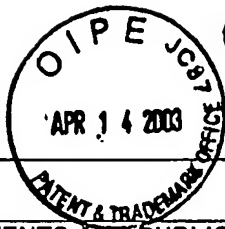
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JPO	D1	6,393,327 B1	05/21/02	Scribner		

EXAMINER INITIAL	OTHER ART - NON PATENT LITERATURE DOCUMENTS <small>(Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.)</small>	
JPO	D2	Copy of International Search Report for PCT/US02/20557 dated May 1, 2003.
↓	D3	Wen, R. et al., "Injury-Induced Upregulation of bFGF and CNTF mRNAs in the Rat Retina", <i>The Journal of Neuroscience</i> , November 1995, pp. 7377-7385.

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EXAMINER <i>Frances P. Oropesa</i>	DATE CONSIDERED 2/2/05
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EXAMINER INITIAL		DOCUMENT NUMBER <small>Number-Kind Code (if known)</small>	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
JPO	C1	6,324,429 B1	11/27/01	Shire et al.		

EXAMINER INITIAL	OTHER ART - NON PATENT LITERATURE DOCUMENTS <small>(Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.)</small>	
JPO	C2	Copy of International Search Report for corresponding PCT/US02/20808 dated March 21, 2003.

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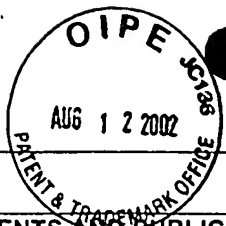
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JPO	B1	US 2002/014764 A1	10/10/02	Peyman		
↓	B2	6,066,675	05/23/00	Wen et al.		

EXAMINER INITIAL	OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)	
JPO	B3	Majji, Ajit, et al.: "Long Term Histological and Electrophysiological Results of an Inactive Epiretinal Electrode Array Implantation in Dogs", Investigative Ophthalmology & Visual Science, August 1999, Vol. 40, No. 9, pp. 2073-2081
↓	B4	Margalit, et al.: "Bioadhesives for Intraocular Use", Retina, The Journal of Retinal and Vitreous Diseases, 2000, Vol. 20, No. 5, pp. 469-477
↓	B5	Peyman, Gholam, MD, et al.: "Subretinal Semiconductor Microphotodiode Array", Ophthalmic Surgery and Lasers, March 1998, Vol. 29, No. 3, pp. 234-241

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
JPO	A1	2,760,483	08/28/1956	Tassicker		
	A2	3,594,823	07/27/1971	Collins		
	A3	3,628,193	12/21/1971	Collins		
	A4	3,766,311	10/16/1973	Boll		
	A5	3,848,608	11/19/1974	Leonard		
	A6	3,914,800	10/28/1975	Collins		
	A7	4,001,867	01/04/1977	Kravitz et al.		
	A8	4,211,474	07/08/1980	Le Goff		
	A9	4,251,887	02/24/1981	Anis		
	A10	4,272,910	06/16/1981	Danz		
	A11	4,551,149	11/05/1985	Sciarra		
	A12	4,600,004	07/15/1986	Lopez et al.		
	A13	4,601,545	07/22/1986	Kern		
	A14	4,628,933	12/16/1986	Michelson		
	A15	4,679,572	07/14/1987	Baker, Jr.		
	A16	4,750,498	06/14/1988	Graham		
	A17	4,810,050	03/07/1989	Hooper		
	A18	4,832,202	05/23/1989	Newman et al.		
	A19	4,873,448	10/10/1989	Shirai		
	A20	4,978,842	12/18/1990	Hinton et al.		
	A21	5,016,633	05/21/1991	Chow		
	A22	5,024,223	06/18/1991	Chow		
	A23	5,109,844	05/05/1992	de Juan Jr. et al.		
	A24	5,130,528	07/14/1992	Phillips, Jr.		
	A25	5,130,776	07/14/1992	Popovic et al.		
	A26	5,159,927	11/03/1992	Schmid		
	A27	5,223,728	06/29/1993	Gempe		
	A28	5,256,882	10/26/1993	Miyasaka		
	A29	5,338,991	08/16/1994	Lu		
	A30	5,351,309	09/27/1994	Lee et al.		
	A31	5,397,350	03/14/1995	Chow et al.		
	A32	5,411,540	05/02/1995	Edell et al.		
	A33	5,476,494	12/19/1995	Edell et al.		
	A34	5,491,349	02/13/1996	Komoto et al.		
A35	5,556,423	09/17/1996	Chow et al.			
A36	5,648,655	07/15/1997	Rostoker			
A37	5,717,201	02/10/1998	Lin et al.			
A38	5,837,995	11/17/1998	Chow et al.			

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EXAMINER Francis P. Deopura	DATE CONSIDERED 2/2/05
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
JPO	A39	5,865,839	02/02/1999	Doorish		
	A40	5,895,414	04/20/1999	Sanchez-Zambrano		
	A41	5,895,415	04/20/1999	Chow et al.		
	A42	5,935,155	08/10/1999	Humayun et al.		
	A43	5,944,747	08/31/1999	Greenberg et al.		
	A44	6,032,062	02/29/2000	Nisch		
	A45	6,035,236	05/08/2001	Jarding et al.		
	A46	6,230,057 B1	05/08/2001	Chow et al.		
	A47	6,298,270 B1	10/02/2001	Nisch et al.		
	A48	6,347,250 B1	02/12/2002	Nisch et al.		
	A49	6,389,317 B1	05/14/2002	Chow et al.		

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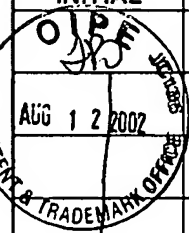
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JPO	A50	DE 195 29 371 C2	02/13/97	Germany		
	A51	GB 2 229 543 A	09/26/90	Great Britain		
	A52	EP 0 084 621 A2	11/23/82	EPO		
	A53	EP 0 233 789	08/26/87	EPO		
	A54	EP 0 501 904 A2	09/02/92	EPO		

EXAMINER INITIAL	OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)	
JPO	A55	Abrams, Dr. Susan B., "Implanted photodiodes could restore lost vision", <i>Biophotonics Research</i> , 1997, 2 pages.
	A56	Acheson, A., P.A. Barker, R.F. Alderson, F.D. Miller, et al., "Detection of Brain-Derived Neurotrophic Factor-Like Activity in Fibroblasts and Schwann Cells: Inhibition by Antibodies to NGF", <i>Neuron</i> , Vol. 7, 1991, pp 265-75.
	A57	Ando, Haruhisa, et al. "Design Consideration and Performance of a New MOS Imaging Device", <i>IEEE</i> , 1985, 6 pages.
	A58	Armington, J.C., Brigell, M., "Effects of Stimulus Location and Pattern Upon the Visually Evoked Cortical Potential and the Electroretinogram," <i>Intern. J. Neuroscience</i> , Vol. 14, 1981, pp 169-178.
	A59	Baylor, D.A., Fuortes, M.G.F., "Electrical Responses of Single Cones in the Retina of the Turtle," <i>J. Physiol</i> , Vol. 207, 1970, pp 77-92.
	A60	Bergmann-Schaefer, "Lehrbuch der Experimentalphysik" (Textbook of Experimental Physics), vol. II, "Electricity and Magnetism" by Prof. Dr. -Ing. H. Gobrecht, 1971, 3 pp. plus translation.
****	A61	Bobsch, M.D., Joseph M. and Grosser, Ph.D., Morton "Newer Repair at the AXOM Level: A Merger of Microsurgery and Microelectronics," VCH Publishers, Inc., 1967.

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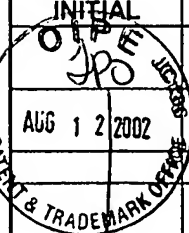

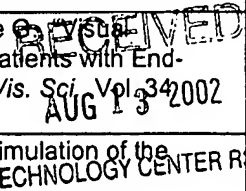
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EXAMINER INITIAL	OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)	
	A62	Boettner, E.A., Wolter, J.R., "Transmission of the Ocular Media," <i>Investigative Ophthalmology</i> , Vol. 1, 1962, pp 776-783.
	A63	Bosco, A., and Linden, R., "BDNF and NT-4 Differentially Modulate Neurite Outgrowth in Developing Retinal Ganglion Cells", <i>J Neurosci Res.</i> Vol. 57, 1999, pp 759-69.
	A64	Brady, G.S., Clauser, H.R., <i>Materials Handbook, Thirteenth Edition</i> , New York, McGraw-Hill, 1991, pp 739-740.
	A65	Brindley, G.S., "The Site of Electrical Excitation of the Human Eye," <i>J. Physiol.</i> , Vol. 127, 1955, pp 189-200.
	A66	Brindley, G.S., "Beats Produced by Simultaneous Stimulation of the Human Eye with Intermittent Light and Intermittent or Alternating Electric Current," <i>J. Physiol.</i> , Vol. 164, 1962, pp 156-167.
	A67	Brown, M.G. et al., "Monolithically Integrated 1 x 12 Array of Planar InGaAs/InP Photodiodes," <i>Journal of Lightwave Technology</i> , Vol. LT-4, No. 3, March 1986, pp. 283-286.
	A68	Caleo, M., Lodovichi, C., and Maffei, L., "Effects of Nerve Growth Factor on Visual Cortical Plasticity Require Afferent Electrical Activity", <i>Eur. J. Neurosci.</i> , Vol. 11, 1999, pp 2979-84.
	A69	Carmignoto, G., Maffei, L., Candeo, P., Canella, R. and Comelli, C., "Effect of NGF on the Survival of Rat Retinal Ganglion Cells Following Optic Nerve Section", <i>J. Neurosci.</i> , Vol. 9, 1989, pp 1263-72.
	A70	Chapin, D.M., et al., "A New Silicon p-n Junction Photocell for Converting Solar Radiation into Electrical Power," <i>Letters to the Editor, Journal of Applied Physics</i> , Vol. 25, 1954, pp 676-7.
	A71	Chow, A.Y., "Electrical Stimulation of the Rabbit Retina with Subretinal Electrodes and High Density Microphotodiode Array Implants," <i>ARVO Abstracts, Invest. Ophthalmol. Vis. Sci.</i> 199334 (Suppl), page 835.
	A72	Chow, A.Y., Pardue, M.T., Chow, V.Y., Peyman, G.A., et al., "Implantation of Silicon Chip Microphotodiode Arrays into the Cat Subretinal Space", <i>IEEE Trans. Neu. Syst. Rehabil. Eng.</i> , Vol. 9, 2001, pp 86-95.
	A73	Chow, A.Y., and Chow, V.Y., "Subretinal Electrical Stimulation of the Rabbit Retina", <i>Neurosci. Lett.</i> Vol. 225, 1997, pp 13-16.
	A74	Chow, A.Y., and Peachey, N., "The Subretinal Microphotodiode Array Retinal Prosthesis II", <i>Ophthalm. Res.</i> , Vol. 31, 1999, page 246.
	A75	Cui, Q., So, K.F., and Yip, H.K., "Major Biological Effects of Neurotrophic Factors on Retinal Ganglion Cells in Mammals", <i>Biol. Sig. Recept.</i> , Vol. 7, 1998, pp 220-226.
	A76	Curcio, C.A., Sloan, K.R., Kalina, R.E., Hendrickson, A.E., "Human Photoreceptor Topography," <i>J Comp. Neuro.</i> , Vol. 292, 1990, pp 497-523.
	A77	Dawson, W.W., Radtke, N.D., "The Electrical Stimulation of the Retina by Indwelling Electrodes," <i>Invest. Ophthalmol. Visual Sci.</i> , Vol. 16, 1997, pp 249-252.
	A78	Dooley, D.M., Sharkey, J., Keller, W., and Kasprak, W., "Treatment of Demyelinating and Degenerative Diseases by Electro Stimulation of the Spinal Cord", <i>Med. Prog. Technol.</i> , Vol. 6, 1978, pp 1-14.
	A79	Dowling, J.E., Ripps, H., Visual Adaptation in the Retina of the Skate," <i>J Gen Physiol.</i> , Vol. 56, 1970, pp 491-520.

EXAMINER <i>James P. Oboya</i>	DATE CONSIDERED <i>2/2/05</i>
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	A80	Eagle, R.C., Lucier, A.C., Bernardino, V.B., et al., "Retinal Pigment Epithelial Abnormalities in Fundus Flavimaculatus," <i>Ophthalmol.</i> , Vol. 87, 1980; pp 1189-1200.
	A81	Evans, R.D., Foltz, D., and Foltz, K., "Electrical Stimulation with Bone and Wound Healing", <i>Clin. Podiatr. Med. Surg.</i> , Vol. 18, 2001, pp 79-95.
	A82	Gibilisco, S., and Sclater, N., <i>Encyclopedia of Electronics</i> , 2d Ed., 1990, pp. 640-645.
	A83	Fenwick, P.B.C., Stone, S.A., Bushman, J., Enderby, D., "Changes in the Pattern Reversal Visual Evoked Potential as a Function of Inspired Nitrous Oxide Concentration," <i>Electroencephalogr. Clin. Neurophysiol.</i> , Vol. 57, 1984, pp 57178-183.
	A84	John B. Flynn, et al. "Total Active Area Silicon Photodiode Array", 1964, 3 pages.
	A85	Frasson, M., Picaud, S., Leveillard, T., Simonutti, M., et al., "Glial Cell Line-Derived Neurotrophic Factor Induces Histologic and Functional Protection of Rod Photoreceptors in the rd/rd Mouse", <i>Invest. Ophthalmol. Visual Sci.</i> , Vol. 40, 1999, pp 2724-34.
	A86	Graeme, J., "Position-Sensing Photodiode Amplifiers," Ch. 10, 12 pages
	A87	Granit, R., Helme, T., "Changes in Retinal Excitability Due to Polarization and Some Observations on the Relation Between the Processes in Retina and Nerve," <i>J. Neurophysiol.</i> , Vol. 2, 1939, pp 556-565.
	A88	Hagins, W.A., Penn, R.D., Yoshikami, S., "Dark Current and Photocurrent in Retinal Rods," <i>J. Biophys.</i> , Vol. 10, 1970, pp 380-412.
	A89	Hergert, K., "Detectors: Expanded Photodetector Choices Pose Challenges for Designers", <i>The Photonics Design and Applications Handbook</i> (1996).
	A90	Humayun, M.S., Propst, R.H., Hickinbotham, D., de Juan E., Jr., Dagnelie, G., et al., "Sensations Produced by Electrical Stimulation of the Retinal Surface in Patients with End-Stage Retinitis Pigmentosa (RP)," ARVO Abstracts, <i>Invest. Ophthalmol. Vis. Sci.</i> , Vol. 34, 1993, page 835. <div style="text-align: right;">  </div>
	A91	Humayun, M., Propst R., de Juan, E., et al., "Bipolar Surface Electrical Stimulation of the Vertebrate Retina," <i>Arch. Ophthalmol.</i> , Vol. 112, 1994, pp 110-116.
		Kane, W.J., "Direct Current Electrical Bone Growth Stimulation for Spinal Fusion", <i>Spine</i> , Vol. 13, 1988, pp 363-365.
	A92	Kataoka, S., "An Attempt Towards an Artificial Retina: 3-D IC Technology for an Intelligent Image Sensor," <i>Transducers '85: International Conference on Solid-State Sensors and Actuators 1985</i> , pp. 440-442.
	A93	Klinke, R., Kral, A., Heid, S., Tillein, J., and Hartmann, R., "Recruitment of the Auditory Cortex in Congenitally Deaf Cats by Long-Term Cochlear Electrostimulation", <i>Science</i> , Vol. 285, 1999, pp. 1729-1733.
	A94	Knighton, R.W., "An Electrically Evoked Slow Potential of the Frog's Retina. I. Properties of Response," <i>J. Neurophysiol.</i> , Vol. 38, 1975, pp 185-197.
	A95	Koyama, S., Haruyama, T., Kobatake, E., and Aizawa, M., "Electrically Induced NGF Production by Astroglial Cells", <i>Nature Biotechnol.</i> , Vol. 15, 1997, pp 164-166.
	A96	Lagey, C.L., Roelofs, J.M., Janssen, L.W.M., Breedijk, M., et al., "Electrical Stimulation of Bone Growth with Direct Current", <i>Clin. Orthop.</i> , No. 204, 1986, pp 303-312.
	A97	Lambiase, A., and Aloe, L., "Nerve Growth Factor Delays Retinal Degeneration in C3H Mice", <i>Graefe's Arch. Clin. Exp. Ophthalmol.</i> , Vol. 234, 1996, pp 96-100.

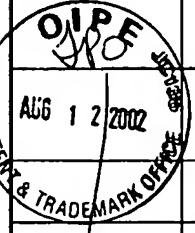
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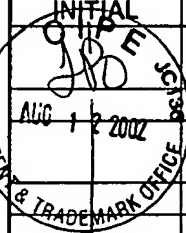
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	A98	Leake, P.A., Hradek, G.T., and Snyder, R.L., "Chronic Electrical Stimulation by a Cochlear Implant Promotes Survival of Spiral Ganglion Neurons after Neonatal Deafness," <i>Neurol.</i> , Vol. 412, 1999, pp 543-562.
	A99	Leake, P.A., Hradek, G.T., Rebscher, S.J., and Snyder, R.L., "Chronic Intracochlear Electrical Stimulation Induces Selective Survival of Spiral Ganglion Neurons in Neonatally Deafened Cats", <i>Hear. Res.</i> , Vol. 54, 1991, pp 251-271.
	A100	Lin, H-C., et al., "The Vertical Integration of Crystalline NMOS and Amorphous Orientational Edge Detector" IEEE Briefs, 1992, 3 pages.
	A101	Melen, R.D., et al., "A Transparent Electrode CCD Image Sensor for a Reading Aid for the Blind," <i>IEEE Journal of Solid-State Circuits</i> , Vol. SC-9, No.2, April 1974, pp. 41-48.
	A102	Narayanan, M.V., Rizzo, J.F., Edell, D., et al., "Development of a Silicon Retinal Implant: Cortical Evoked Potentials Following Focal Stimulation of the Rabbit Retina with Light and Electricity," <i>ARVO Abstracts, Invest. Ophthalmol. Vis. Sci.</i> , Vol. 35 (Suppl), 1994, page 1380.
	A103	Neely, M.D., and Nicholls, J.G., "Electrical Activity, Growth Cone Motility and the Cytoskeleton", <i>J. Exp. Biol.</i> Vol. 198, 1995, pp 1433-1446.
	A104	Pagon, R.A., "Retinitis Pigmentosa," <i>Survey Ophthalmol.</i> , Vol. 33, 1988, pp 137-177.
	A105	Paton, D., Goldberg, M.F., <i>Management of Ocular Injuries</i> , Philadelphia, W.B. Saunders Co., 1976, pp 134-135.
	A106	Peachey, N.S., and Chow, A.Y., "Subretinal Implantation of Semiconductor-Based Photodiodes: Progress and Challenges", <i>J. Rehabil. Res. Develop.</i> , Vol. 36, No. 4, 1999, pp 1-7.
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EXAMINER	<i>James P. Orosley</i>	DATE CONSIDERED	<i>2/2/05</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449	SERIAL NO. 10/056,793	CASE NO. 3614/63
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	FILING DATE January 23, 2002	GROUP ART UNIT 3762
(use several sheets if necessary)		APPLICANT(S): A. Chow et al.

EXAMINER INITIAL	OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)	
	A116	Rovamo, J., Virsu, V., "An Estimation and Application of the Human Cortical Magnification Factor," <i>Exp Brain Res.</i> , Vol. 37, 1979, pp 495-510.
	A117	Rubin, M.L., <i>Optics for Clinicians</i> , Gainesville, TRIAD Scientific Publishers, 1974, pp 119-123.
	A118	Shannon, R.V., "A Model of Safe Levels for Electrical Stimulation," <i>IEEE Transactions Biomed. Eng.</i> , Vol. 39, 1992, pp 424-426.
	A119	Smith, J., "Creating a Bionic Eye", ABC News, 11/5/98, 3 pages.
	A120	Stone, J.L., Barlow, W.E., Humayun, M.S., de Juan, E., Jr., Milam, A.H., "Morphometric Analysis of Macular Photoreceptor and Ganglion Cells in Retinas with Retinitis Pigmentosa," <i>Arch. Ophthalmol.</i> , Vol. 110, 1992, pp 1634-1639.
	A121	Sze, S.M., "Physics of Semiconductor Devices", 2 <sup>nd</sup> Ed., A Wiley-Interscience Publication, John Wiley & Sons, (undated).
	A122	Tasman, E., ed. <i>Duane's Foundations of Clinical Ophthalmology, Volume 3</i> , Philadelphia, Lippincott, 1992; chapter 13:20-25, chapter 60:1-112.
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EXAMINER	Frances P. Oropey	DATE CONSIDERED	2/2/05
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